

Appl. No. 10/673,959
Response dated August 24, 2005
Reply to Office Action of June 9, 2005

IN THE CLAIMS:

Please rewrite the following claims:

1. (Cancelled).

2. (Cancelled).

3. (Currently Amended) A casing removal system , comprising:

a) a body, the body including first and second portions;

b) a clamp, the clamp being attached to the first and second portions of the body, the clamp being mountable around a section of casing which has been installed in a well bore;

c) a first drill movably mounted on the first portion of the body, the first drill comprising a first drill bit having a longitudinal axis, the first drill bit being rotatably connected to the first drill;

d) a second drill movably mounted on the second portion of the body, the second drill comprising a second drill bit having a longitudinal axis, the second drill bit being rotatably connected to the second drill; and

e) wherein, when the clamp is mounted on the section of casing the longitudinal axis of the first drill bit is substantially aligned with the longitudinal axis of the second drill bit,
wherein the clamp further comprises first and second sections, the first and second sections being connectable by a plurality of fasteners.

4. (Original) The casing removal system of claim 3, wherein the first and second sections of the clamp are hemispherically shaped.

5. (Currently Amended) The casing removal system of claim 34, wherein the first ~~ans~~ and second sections of the clamp are connected by a hinge on one side a plurality of fasteners on the other side.

6. (Original) The casing removal system of claim 3, wherein the clamp conforms to the shape of the joint of casing.

7. (Currently Amended) The casing removal system of claim 3 ~~±~~, wherein the first portion of the body further comprises a first handle operatively connected to the first drill and activation of the first handle causes movement of the first drill in a linear direction and wherein the second portion of the body further comprises a second handle operatively connected to the second drill, and activation of the second handle causes movement of the second drill in a linear direction.

8. (Original) The casing removal system of claim 7, wherein the first portion of the body further comprises a first base operatively connected to the first handle and also connected to the first drill, and activation of the first handle causes movement of the first base in a linear direction and wherein the second portion of the body further comprises a second base operatively connected to the second handle and also connected to the second drill, and activation of the second handle causes movement of the second base in a linear direction.

9. (Original) The casing removal system of claim 7, wherein the first and second handles are activated by rotation.

10. (Original) The casing removal system of claim 8, wherein the first and second

handles are activated by rotation.

11. (Original) The casing removal system of claim 8, wherein the first base is threadably connected to the first handle.

12. (Original) The casing removal system of claim 8, wherein the first portion of the body further comprises a first plurality of guides slidingly connected to the first base and guiding linear movement of the first base, and wherein the second portion of the body further comprises a second plurality of guides slidingly connected to the second base and guiding linear movement of the second base.

13. (Currently Amended) The ~~fluid recovery~~ casing removal system of claim 3~~+~~, further comprising a first guard attached to the first portion and restricting access to the first drill bit, and further comprising a second guard attached to the second portion and restricting access to the second drill bit.

14. (Currently Amended) The ~~fluid recovery~~ casing removal system of claim 3~~+~~, further comprising a first pilot drill bit, the first pilot drill bit being attached to the first drill bit and a second pilot drill bit, the second pilot drill bit being attached to the second drill bit.

15. (Original) A method of removing a joint of casing from a well bore, comprising:

- a) attaching a plurality of slips on a string of casing located in the well bore;
- b) making a cut line which divides the string of casing into upper and lower sections;
- c) removing the upper section of the string of casing;
- d) connecting a casing removal system on the joint of casing;

- e) the casing removal system in step “d” comprising a body, the body including first and second ends, first and second drill bits operatively connected to the first and second ends, the first and second drill bits having longitudinal axes substantially aligned with each other; a clamp, the clamp connecting the first and second ends;
- f) drilling holes in the joint of casing with the first and second drill bits; and
- g) pulling up the lower section of the string of casing from the well bore using the drilled holes.

16. (Original) The method of claim 15, wherein in step “c” the first and second drill bits are caused to be moved in a linear direction with first and second handles.

17. (Original) The method of claim 15, before completion of step “c,” further comprising the step of drilling first and pilot holes in the joint of casing using a plurality of pilot drill bits.

18. (New) The method of claim 15, further including the step of placing a bar through the holes of the joint of casing in step “f.”

19. (New) The method of claim 18, wherein in step “g” a traveling block is used to pull up the lower section of the string of casing.

20. (New) The method of claim 15, wherein during step “f” a fluid is added to lubricate the drill bits.

21. (New) The method of claim 20, wherein the fluid is water.

22. (New) The method of claim 15, wherein a guillotine saw is used to make the cut line

Appl. No. 10/673,959
Response dated August 24, 2005
Reply to Office Action of June 9, 2005

in step "b."

23. (New) The casing removal system of claim 3, wherein at least two of the plurality of fasteners are substantially parallel to the longitudinal axes of the first and second drill bits.

24. (New) The casing removal system of claim 6, wherein the clamp has an interior surface, and substantially all of the interior surface contacts the joint of casing.